

## IMAGING SYSTEM FOR GENERATING HIGH QUALITY IMAGES

### ABSTRACT OF THE DISCLOSURE

The present invention, in one form, is a multimode imaging system which, in one embodiment, includes a substantially C-shaped arm movably coupled to a movable base to reduce difficulty of scanning an object. A source assembly having a x-ray source and a detector assembly having a detector are movably coupled to the arm. The source assembly and the detector assembly are independently movable relative to each other and to the arm. In one embodiment, an operator selects one or more modes of operation of the imaging system so that various types of image data are displayed.

5